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## GROUND-WATER MONITORING HISTORY

### BACKGROUND:

The Department of Energy Kansas City Facility currently operates two lagoons which discharge to the Kansas City, Missouri publically owned treatment works (POTW). The north lagoon was designed and constructed in the early 1960s and was operational in 1964 under Operational Permit 655. The discharge from the north lagoon was originally routed to the Blue River. In 1968 this discharge was rerouted to the sanitary sewer under Operational Permit 471. The second lagoon (south) was constructed in 1977. Both lagoons receive wastewater such as treated cooling tower blowdown, janitorial station wash water, rinse water from various plating operations, and a variety of cooling water applications.

Five relatively shallow wells (approximately 15 ft. deep) were installed around the north lagoon as part of the original construction. No regular monitoring was ever conducted. Two of the five wells were removed when the south lagoon was built. No additional wells were installed at that time.

\* With the promulgation of both federal and State of Missouri hazardous waste management regulations, the DOE Kansas City facility submitted the required Part A Application for interim status. The original application included the lagoons. On August 12, 1981, Mr. Harry Gilmer of the Environmental Protection Agency visited the facility to verify information on the application and inspect the facilities identified. He advised facility representatives that the lagoons were not covered by the regulations as they discharged to the POTW and an amended application should be submitted to this effect which was subsequently done. Mr. Gene Holcomb and Mr. Mark Puett of the Missouri Department of Natural Resources agreed with this interpretation during an inspection of the same facilities on September 10, 1981.

Concurrent with the above actions, a system of ten (10) wells around the lagoons and an underground tank farm were installed. These wells were installed as a precaution against future changes in the laws or the status of the lagoons. No formal routine monitoring program has been undertaken to date, but a program to meet the RCRA requirements has been scoped and